Kazuhiko Ishihara

List of Publications by Year
in descending order

586 papers	23,938 citations	10373 72 h-index	15716 125 g-index
595 all docs	595 docs citations	595 times ranked	12575 citing authors

#	Article	IF	Citations
1	Preparation of Phospholipid Polylners and Their Properties as Polymer Hydrogel Membranes. Polymer Journal, 1990, 22, 355-360.	1.3	1,041
2	Why do phospholipid polymers reduce protein adsorption?. Journal of Biomedical Materials Research Part B, 1998, 39, 323-330.	3.0	923
3	Surface grafting of artificial joints with a biocompatible polymer for preventing periprosthetic osteolysis. Nature Materials, 2004, 3, 829-836.	13.3	528
4	Protein adsorption from human plasma is reduced on phospholipid polymers. Journal of Biomedical Materials Research Part B, 1991, 25, 1397-1407.	3.0	433
5	Hemocompatibility of human whole blood on polymers with a phospholipid polar group and its mechanism. Journal of Biomedical Materials Research Part B, 1992, 26, 1543-1552.	3.0	402
6	Wettability and Antifouling Behavior on the Surfaces of Superhydrophilic Polymer Brushes. Langmuir, 2012, 28, 7212-7222.	1.6	376
7	Reduced thrombogenicity of polymers having phospholipid polar groups. Journal of Biomedical Materials Research Part B, 1990, 24, 1069-1077.	3.0	375
8	Perparation of 2-Methacryloyloxyethyl Phosphorylcholine Copolymers with Alkyl Methacrylates and Their Blood Compatibility.. Polymer Journal, 1992, 24, 1259-1269.	1.3	348
9	Adsorption of Fibrinogen and Lysozyme on Silicon Grafted with Poly(2-methacryloyloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 5980-5987.	1.6	342
10	Phosphorylcholine-containing polymers for biomedical applications. Analytical and Bioanalytical Chemistry, 2005, 381, 534-546.	1.9	306
11	Glucose Induced Permeation Control of Insulin through a Complex Membrane Consisting of Immobilized Glucose Oxidase and a Poly(amine). Polymer Journal, 1984, 16, 625-631.	1.3	248
12	Cell membrane-inspired phospholipid polymers for developing medical devices with excellent biointerfaces. Science and Technology of Advanced Materials, 2012, 13, 064101.	2.8	245
13	Friction behavior of high-density poly(2-methacryloyloxyethyl phosphorylcholine) brush in aqueous media. Soft Matter, 2007, 3, 740.	1.2	242
14	Biomimetic phosphorylcholine polymer grafting from polydimethylsiloxane surface using photo-induced polymerization. Biomaterials, 2006, 27, 5151-5160.	5.7	223
15	Modification of polysulfone with phospholipid polymer for improvement of the blood compatibility. Part 2. Protein adsorption and platelet adhesion. Biomaterials, 1999, 20, 1553-1559.	5.7	210
16	Synthesis of Well-Defined Amphiphilic Block Copolymers Having Phospholipid Polymer Sequences as a Novel Biocompatible Polymer Micelle Reagent. Biomacromolecules, 2005, 6, 663-670.	2.6	188
17	Photoinduced graft polymerization of 2-methacryloyloxyethyl phosphorylcholine on polyethylene membrane surface for obtaining blood cell adhesion resistance. Colloids and Surfaces B: Biointerfaces, 2000, 18, 325-335.	2.5	183
18	Significance of Antibody Orientation Unraveled: Well-Oriented Antibodies Recorded High Binding Affinity. Analytical Chemistry, 2011, 83, 1969-1976.	3.2	183

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19	Surface modification on microfluidic devices with 2-methacryloyloxyethyl phosphorylcholine polymers for reducing unfavorable protein adsorption. Colloids and Surfaces B: Biointerfaces, 2007, 54, 88-93.	2.5	158
20	Modification of polysulfone with phospholipid polymer for improvement of the blood compatibility. Part 1. Surface characterization. Biomaterials, 1999, 20, 1545-1551.	5.7	157
21	Raman Spectroscopic Study on the Structure of Water in Aqueous Polyelectrolyte Solutionsâ€. Journal of Physical Chemistry B, 2000, 104, 11425-11429.	1.2	155
22	Revolutionary advances in 2â€methacryloyloxyethyl phosphorylcholine polymers as biomaterials. Journal of Biomedical Materials Research - Part A, 2019, 107, 933-943.	2.1	153
23	Inhibition of fibroblast cell adhesion on substrate by coating with 2-methacryloyloxyethyl phosphorylcholine polymers. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 1047-1061.	1.9	150
24	Bioinspired Self-Healing Hydrogel Based on Benzoxaborole-Catechol Dynamic Covalent Chemistry for 3D Cell Encapsulation. ACS Macro Letters, 2018, 7, 904-908.	2.3	149
25	Synthesis of phospholipid polymers having a urethane bond in the side chain as coating material on segmented polyurethane and their platelet adhesion-resistant properties. Biomaterials, 1995, 16, 873-879.	5.7	145
26	Enhanced solubility of paclitaxel using water-soluble and biocompatible 2-methacryloyloxyethyl phosphorylcholine polymers. Journal of Biomedical Materials Research Part B, 2003, 65A, 209-214.	3.0	145
27	Structure of Water in the Vicinity of Phospholipid Analogue Copolymers As Studied by Vibrational Spectroscopyâ€. Langmuir, 2003, 19, 10260-10266.	1.6	144
28	Soft contact lens biomaterials from bioinspired phospholipid polymers. Expert Review of Medical Devices, 2006, 3, 167-174.	1.4	144
29	Self-initiated surface grafting with poly(2-methacryloyloxyethyl phosphorylcholine) on poly(ether-ether-ketone). Biomaterials, 2010, 31, 1017-1024.	5.7	143
30	Protein resistant surfaces: Comparison of acrylate graft polymers bearing oligo-ethylene oxide and phosphorylcholine side chains. Biointerphases, 2006, 1, 50-60.	0.6	141
31	Protein adsorption and cell adhesion on cationic, neutral, and anionic 2-methacryloyloxyethyl phosphorylcholine copolymer surfaces. Biomaterials, 2009, 30, 4930-4938.	5.7	141
32	Preparation and performance of protein-adsorption-resistant asymmetric porous membrane composed of polysulfone/phospholipid polymer blend. Biomaterials, 2001, 22, 243-251.	5.7	128
33	Hemocompatibility on graft copolymers composed of poly(2-methacryloyloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (phosphorylcholine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (phosphorylcholine) Materials Research Part B, 1994, 28, 225-232.	3.0	124
34	Blood-Compatible Surfaces with Phosphorylcholine-Based Polymers for Cardiovascular Medical Devices. Langmuir, 2019, 35, 1778-1787.	1.6	123
35	Surface tethering of phosphorylcholine groups onto poly(dimethylsiloxane) through swellingâ€"deswelling methods with phospholipids moiety containing ABA-type block copolymers. Biomaterials, 2008, 29, 1367-1376.	5.7	121
36	Hydration of phosphorylcholine groups attached to highly swollen polymer hydrogels studied by thermal analysis. Polymer, 2008, 49, 4652-4657.	1.8	120

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37	Reduction of surface-induced inflammatory reaction on PLGA/MPC polymer blend. Biomaterials, 2002, 23, 3897-3903.	5.7	119
38	Temporal and spatially controllable cell encapsulation using a water-soluble phospholipid polymer with phenylboronic acid moiety. Biomaterials, 2007, 28, 1770-1777.	5.7	113
39	Photoinduced phospholipid polymer grafting on Parylene film: Advanced lubrication and antibiofouling properties. Colloids and Surfaces B: Biointerfaces, 2007, 54, 67-73.	2.5	110
40	Critical update on 2â€methacryloyloxyethyl phosphorylcholine (MPC) polymer science. Journal of Applied Polymer Science, 2015, 132, .	1.3	109
41	Super-hydrophilic silicone hydrogels with interpenetrating poly(2-methacryloyloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	5.7	108
42	Self-Initiated Surface Graft Polymerization of 2-Methacryloyloxyethyl Phosphorylcholine on Poly(ether ether ketone) by Photoirradiation. ACS Applied Materials & Interfaces, 2009, 1, 537-542.	4.0	107
43	Inducing Rapid Cellular Response on RGD-Binding Threaded Macromolecular Surfaces. Journal of the American Chemical Society, 2013, 135, 5513-5516.	6.6	107
44	Improved blood compatibility of segmented polyurethanes by polymeric additives having phospholipid polar groups. I. Molecular design of polymeric additives and their functions. , 1996, 32, 391-399.		105
45	Preparation of nanoparticles composed with bioinspired 2-methacryloyloxyethyl phosphorylcholine polymer. Biomaterials, 2001, 22, 1883-1889.	5.7	105
46	Polymeric Lipid Nanosphere Consisting of Water-Soluble Poly(2-methacryloyloxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (ph	1.3	104
47	The unique hydration state of poly(2-methacryloyloxyethyl phosphorylcholine). Journal of Biomaterials Science, Polymer Edition, 2017, 28, 884-899.	1.9	103
48	Cell-penetrating macromolecules: Direct penetration of amphipathic phospholipid polymers across plasma membrane of living cells. Biomaterials, 2010, 31, 2380-2387.	5.7	100
49	Adhesive bone cement containing hydroxyapatite particle as bone compatible filler. Journal of Biomedical Materials Research Part B, 1992, 26, 937-945.	3.0	99
50	Wear resistance of artificial hip joints with poly(2-methacryloyloxyethyl phosphorylcholine) grafted polyethylene: Comparisons with the effect of polyethylene cross-linking and ceramic femoral heads. Biomaterials, 2009, 30, 2995-3001.	5.7	98
51	Polymer Nanoparticles Covered with Phosphorylcholine Groups and Immobilized with Antibody for High-Affinity Separation of Proteins. Biomacromolecules, 2008, 9, 828-833.	2.6	97
52	Suppression of the inflammatory response from adherent cells on phospholipid polymers. Journal of Biomedical Materials Research Part B, 2003, 64A, 411-416.	3.0	92
53	Degradable Thermoresponsive Nanogels for Protein Encapsulation and Controlled Release. Bioconjugate Chemistry, 2012, 23, 75-83.	1.8	91
54	Highly lubricated polymer interfaces for advanced artificial hip joints through biomimetic design. Polymer Journal, 2015, 47, 585-597.	1.3	91

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55	Evaluation of 2-Methacryloyloxyethyl Phosphorylcholine Polymeric Nanoparticle for Immunoassay of C-Reactive Protein Detection. Analytical Chemistry, 2004, 76, 2649-2655.	3.2	90
56	Integrated functional nanocolloids covered with artificial cell membranes for biomedical applications. Nano Today, 2011, 6, 61-74.	6.2	90
57	Control of insulin permeation through a polymer membrane with responsive function for glucose. Die Makromolekulare Chemie Rapid Communications, 1983, 4, 327-331.	1.1	89
58	Controlled release of organic substances using polymer membrane with responsive function for amino compounds. Journal of Applied Polymer Science, 1984, 29, 211-217.	1.3	89
59	Reduction of protein adsorption on well-characterized polymer brush layers with varying chemical structures. Colloids and Surfaces B: Biointerfaces, 2010, 81, 350-357.	2.5	88
60	Biomimetic hydration lubrication with various polyelectrolyte layers on cross-linked polyethylene orthopedic bearing materials. Biomaterials, 2012, 33, 4451-4459.	5.7	88
61	Dimensions of a Free Linear Polymer and Polymer Immobilized on Silica Nanoparticles of a Zwitterionic Polymer in Aqueous Solutions with Various Ionic Strengths. Langmuir, 2008, 24, 8772-8778.	1.6	86
62	Reduction of surface-induced platelet activation on phospholipid polymer. Journal of Biomedical Materials Research Part B, 1997, 36, 508-515.	3.0	83
63	Reduced Protein Adsorption on Novel Phospholipid Polymers. Journal of Biomaterials Applications, 1998, 13, 111-127.	1.2	80
64	Poly(ether-ether-ketone) orthopedic bearing surface modified byÂself-initiated surface grafting of poly(2-methacryloyloxyethyl phosphorylcholine). Biomaterials, 2013, 34, 7829-7839.	5.7	80
65	The effect of the chemical structure of the phospholipid polymer on fibronectin adsorption and fibroblast adhesion on the gradient phospholipid surface. Biomaterials, 1999, 20, 2185-2191.	5.7	79
66	Simple surface modification of a titanium alloy with silanated zwitterionic phosphorylcholine or sulfobetaine modifiers to reduce thrombogenicity. Colloids and Surfaces B: Biointerfaces, 2010, 79, 357-364.	2.5	79
67	Surface modification by 2-methacryloyloxyethyl phosphorylcholine coupled to a photolabile linker for cell micropatterning. Biomaterials, 2009, 30, 1413-1420.	5.7	77
68	Photo-immobilization of a phospholipid polymer for surface modification. Biomaterials, 2005, 26, 1381-1388.	5.7	76
69	RAFT Synthesis and Stimulus-Induced Self-Assembly in Water of Copolymers Based on the Biocompatible Monomer 2-(Methacryloyloxy)ethyl Phosphorylcholine. Biomacromolecules, 2009, 10, 950-958.	2.6	76
70	Lubricity and stability of poly(2-methacryloyloxyethyl phosphorylcholine) polymer layer on Coâ€"Crâ€"Mo surface for hemi-arthroplasty to prevent degeneration of articular cartilage. Biomaterials, 2010, 31, 658-668.	5.7	76
71	Water structure and improved mechanical properties of phospholipid polymer hydrogel with phosphorylcholine centered intermolecular cross-linker. Polymer, 2006, 47, 1390-1396.	1.8	75
72	Bioinspired interface for nanobiodevices based on phospholipid polymer chemistry. Journal of the Royal Society Interface, 2009, 6, S279-91.	1.5	75

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73	Photoreactive Polymers Bearing a Zwitterionic Phosphorylcholine Group for Surface Modification of Biomaterials. ACS Applied Materials & Interfaces, 2015, 7, 17489-17498.	4.0	75
74	Synthesis of sequence-controlled copolymers from extremely polar and apolar monomers by living radical polymerization and their phase-separated structures. Journal of Polymer Science Part A, 2005, 43, 6073-6083.	2.5	74
75	Reduced platelets and bacteria adhesion on poly(ether ether ketone) by photoinduced and selfâ€initiated graft polymerization of 2â€methacryloyloxyethyl phosphorylcholine. Journal of Biomedical Materials Research - Part A, 2014, 102, 1342-1349.	2.1	74
76	Methacrylate polymer layers bearing poly(ethylene oxide) and phosphorylcholine side chains as non-fouling surfaces: In vitro interactions with plasma proteins and platelets. Acta Biomaterialia, 2011, 7, 3692-3699.	4.1	73
77	Effects of phospholipid adsorption on nonthrombogenicity of polymer with phospholipid polar group. Journal of Biomedical Materials Research Part B, 1993, 27, 1309-1314.	3.0	72
78	Preparation of blood-compatible hollow fibers from a polymer alloy composed of polysulfone and 2-methacryloyloxyethyl phosphorylcholine polymer. Journal of Biomedical Materials Research Part B, 2002, 63, 333-341.	3.0	71
79	Near-Infrared Photoluminescent Carbon Nanotubes for Imaging of Brown Fat. Scientific Reports, 2017, 7, 44760.	1.6	71
80	The vascular prosthesis without pseudointima prepared by antithrombogenic phospholipid polymer. Biomaterials, 2002, 23, 1455-1459.	5.7	70
81	Physical properties and blood compatibility of surface-modified segmented polyurethane by semi-interpenetrating polymer networks with a phospholipid polymer. Biomaterials, 2002, 23, 4881-4887.	5.7	70
82	Improvement of blood compatibility on cellulose dialysis membrane I. Grafting of 2-methacryloyloxyethyl phosphorylcholine on to a cellulose membrane surface. Biomaterials, 1992, 13, 145-149.	5.7	69
83	Rapid Development of Hydrophilicity and Protein Adsorption Resistance by Polymer Surfaces Bearing Phosphorylcholine and Naphthalene Groups. Langmuir, 2008, 24, 10340-10344.	1.6	69
84	Short-termin vivo evaluation of small-diameter vascular prosthesis composed of segmented poly(etherurethane)/2-methacryloyloxyethyl phosphorylcholine polymer blend. Journal of Biomedical Materials Research Part B, 1998, 43, 15-20.	3.0	68
85	Preparation of cross-linked biocompatible poly(2-methacryloyloxyethyl phosphorylcholine) gel and its strange swelling behavior in water/ethanol mixture. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 213-224.	1.9	68
86	The prevention of peritendinous adhesions by a phospholipid polymer hydrogel formed in situ by spontaneous intermolecular interactions. Biomaterials, 2010, 31, 4009-4016.	5.7	68
87	Improvement of blood compatibility on cellulose dialysis membrane2. Blood compatibility of phospholipid polymer grafted cellulose membrane. Biomaterials, 1992, 13, 235-239.	5.7	67
88	Cell adhesion on phase-separated surface of block copolymer composed of poly(2-methacryloyloxyethyl phosphorylcholine) and poly(dimethylsiloxane). Biomaterials, 2009, 30, 5330-5340.	5.7	67
89	Enhanced wear resistance of modified cross-linked polyethylene by grafting with poly(2-methacryloyloxyethyl phosphorylcholine). Journal of Biomedical Materials Research - Part A, 2007, 82A, 10-17.	2.1	66
90	Bone morphogenetic protein encapsulated with a biodegradable and biocompatible polymer. , 1996, 32, 433-438.		65

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91	Microfluidic flow control on charged phospholipidpolymer interface. Lab on A Chip, 2007, 7, 199-206.	3.1	64
92	Cell Adhesion and Morphology in Porous Scaffold Based on Enantiomeric Poly(lactic acid) Graft-type Phospholipid Polymers. Biomacromolecules, 2002, 3, 1375-1383.	2.6	62
93	Artificial Cell Membrane-Covered Nanoparticles Embedding Quantum Dots as Stable and Highly Sensitive Fluorescence Bioimaging Probes. Biomacromolecules, 2008, 9, 3252-3257.	2.6	62
94	Rapid Mussel-Inspired Surface Zwitteration for Enhanced Antifouling and Antibacterial Properties. Langmuir, 2019, 35, 1621-1630.	1.6	62
95	Preservation of platelet function on 2-methacryloyloxyethyl phosphorylcholine-graft polymer as compared to various water-soluble graft polymers. Journal of Biomedical Materials Research Part B, 2001, 57, 72-78.	3.0	61
96	High functional hollow fiber membrane modified with phospholipid polymers for a liver assist bioreactor. Biomaterials, 2006, 27, 1955-1962.	5.7	61
97	Photo-induced change in wettability and binding ability of azoaromatic polymers. Journal of Applied Polymer Science, 1982, 27, 239-245.	1.3	60
98	Photoinduced swelling control of amphiphilic azoaromatic polymer membrane. Journal of Polymer Science: Polymer Chemistry Edition, 1984, 22, 121-128.	0.8	60
99	Graft copolymerization of 2â€methacryloyloxyethyl phosphorylcholine to cellulose in homogeneous media using atom transfer radical polymerization for providing new hemocompatible coating materials. Journal of Polymer Science Part A, 2008, 46, 3306-3313.	2.5	59
100	High lubricious surface of cobaltâ€“chromiumâ€“molybdenum alloy prepared by grafting poly(2-methacryloyloxyethyl phosphorylcholine). Biomaterials, 2007, 28, 3121-3130.	5.7	58
101	Bioconjugated Phospholipid Polymer Biointerface for Enzyme-Linked Immunosorbent Assay. Biomacromolecules, 2008, 9, 403-407.	2.6	58
102	Impact of the nature, size and chain topologies of carbohydrateâ€“phosphorylcholine polymeric gene delivery systems. Biomaterials, 2012, 33, 7858-7870.	5.7	58
103	Improvement of blood compatibility on cellulose dialysis membrane. III. Synthesis and performance of water-soluble cellulose grafted with phospholipid polymer as coating material on cellulose dialysis membrane. Journal of Biomedical Materials Research Part B, 1995, 29, 181-188.	3.0	57
104	Surface mobility of polymers having phosphorylcholine groups connected with various bridging units and their protein adsorption-resistance properties. Colloids and Surfaces B: Biointerfaces, 2003, 28, 53-62.	2.5	57
105	Modeling of swelling and drug release behavior of spontaneously forming hydrogels composed of phospholipid polymers. International Journal of Pharmaceutics, 2004, 275, 259-269.	2.6	57
106	Designing dynamic surfaces for regulation of biological responses. Soft Matter, 2012, 8, 5477.	1.2	57
107	Chain dimension of polyampholytes in solution and immobilized brush states. Polymer Journal, 2012, 44, 121-130.	1.3	57
108	Neutron reflectivity study of the swollen structure of polyzwitterion and polyeletrolyte brushes in aqueous solution. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1673-1686.	1.9	57

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109	Improved blood compatibility of segmented polyurethane by polymeric additives having phospholipid polar group. II. Dispersion state of the polymeric additive and protein adsorption on the surface. Journal of Biomedical Materials Research Part B, 1996, 32, 401-408.	3.0	56
110	In situ modification on cellulose acetate hollow fiber membrane modified with phospholipid polymer for biomedical application. Journal of Membrane Science, 2005, 249, 133-141.	4.1	56
111	Protein adsorption resistance and oxygen permeability of chemically crosslinked phospholipid polymer hydrogel for ophthalmologic biomaterials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 184-190.	1.6	56
112	An enzyme-immobilization method for integration of biofunctions on a microchip using a water-soluble amphiphilic phospholipid polymer having a reacting group. Lab on A Chip, 2004, 4, 4.	3.1	55
113	Phospholipid polymer surfaces reduce bacteria and leukocyte adhesion under dynamic flow conditions. Journal of Biomedical Materials Research - Part A, 2005, 73A, 359-366.	2.1	55
114	Effects of mobility/immobility of surface modification by 2â€methacryloyloxyethyl phosphorylcholine polymer on the durability of polyethylene for artificial joints. Journal of Biomedical Materials Research - Part A, 2009, 90A, 362-371.	2.1	55
115	Intraperitoneal administration of paclitaxel solubilized with poly(2â€methacryloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Cancer Science, 2009, 100, 1979-1985.	1.7	55
116	Long-term hip simulator testing of the artificial hip joint bearing surface grafted with biocompatible phospholipid polymer. Journal of Orthopaedic Research, 2014, 32, 369-376.	1.2	55
117	Molecular Interaction Forces Generated during Protein Adsorption to Well-Defined Polymer Brush Surfaces. Langmuir, 2015, 31, 3108-3114.	1.6	55
118	Nano-scale surface modification of a segmented polyurethane with a phospholipid polymer. Biomaterials, 2004, 25, 5353-5361.	5.7	54
119	Effects of photo-induced graft polymerization of 2-methacryloyloxyethyl phosphorylcholine on physical properties of cross-linked polyethylene in artificial hip joints. Journal of Materials Science: Materials in Medicine, 2007, 18, 1809-1815.	1.7	54
120	Adsorption-Desorption of proteins on phospholipid polymer surfaces evaluated by dynamic contact angle measurement. Journal of Biomedical Materials Research Part B, 1995, 29, 381-387.	3.0	53
121	Sequential Enzymatic Reactions and Stability of Biomolecules Immobilized onto Phospholipid Polymer Nanoparticles. Biomacromolecules, 2006, 7, 171-175.	2.6	53
122	Photografting of 2-methacryloyloxyethyl phosphorylcholine from polydimethylsiloxane: Tunable protein repellency and lubrication property. Colloids and Surfaces B: Biointerfaces, 2008, 63, 64-72.	2.5	53
123	Semi-interpenetrating polymer networks composed of biocompatible phospholipid polymer and segmented polyurethane. Journal of Biomedical Materials Research Part B, 2000, 52, 701-708.	3.0	52
124	Platelet compatible blood filtration fabrics using a phosphorylcholine polymer having high surface mobility. Biomaterials, 2003, 24, 3599-3604.	5.7	52
125	The significance of hydrated surface molecular mobility in the control of the morphology of adhering fibroblasts. Biomaterials, 2013, 34, 3206-3214.	5.7	52
126	Evaluation of the durability andÂantiadhesive action of 2-methacryloyloxyethyl phosphorylcholine grafting on an acrylicÂresin denture base material. Journal of Prosthetic Dentistry, 2014, 112, 194-203.	1.1	52

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127	Small Diameter Vascular Prosthesis with a Nonthrombogenic Phospholipid Polymer Surface: Preliminary Study of a New Concept for Functioning in the Absence of Pseudo- or Neointima Formation. Artificial Organs, 2000, 24, 23-28.	1.0	51
128	Effect of water-soluble phospholipid polymers conjugated with papain on the enzymatic stability. Biomaterials, 2004, 25, 71-76.	5.7	51
129	Asymmetrically functional surface properties on biocompatible phospholipid polymer membrane for bioartificial kidney. Journal of Biomedical Materials Research - Part A, 2006, 77A, 19-27.	2.1	51
130	A Microfluidic Hydrogel Capable of Cell Preservation without Perfusion Culture under Cellâ€Based Assay Conditions. Advanced Materials, 2010, 22, 3017-3021.	11.1	51
131	The use of the mechanical microenvironment of phospholipid polymer hydrogels to control cell behavior. Biomaterials, 2013, 34, 5891-5896.	5.7	51
132	Synthesis of hydrophilic cross-linker having phosphorylcholine-like linkage for improvement of hydrogel properties. Polymer, 2004, 45, 7499-7504.	1.8	50
133	2006 FRANK STINCHFIELD AWARD: Grafting of Biocompatible Polymer for Longevity of Artificial Hip Joints. Clinical Orthopaedics and Related Research, 2006, 453, 58-63.	0.7	50
134	Preparation and Characterization of Polyion Complex Micelles with Phosphobetaine Shells. Langmuir, 2013, 29, 9651-9661.	1.6	50
135	Elastic Repulsion from Polymer Brush Layers Exhibiting High Protein Repellency. Langmuir, 2013, 29, 10752-10758.	1.6	50
136	Quantitative Evaluation of Interaction Force between Functional Groups in Protein and Polymer Brush Surfaces. Langmuir, 2014, 30, 2745-2751.	1.6	50
137	Controlled drug release from multilayered phospholipid polymer hydrogel on titanium alloy surface. Biomaterials, 2009, 30, 5201-5208.	5.7	49
138	Cartilage-mimicking, High-density Brush Structure Improves Wear Resistance of Crosslinked Polyethylene: A Pilot Study. Clinical Orthopaedics and Related Research, 2011, 469, 2327-2336.	0.7	49
139	Spherical Phospholipid Polymer Hydrogels for Cell Encapsulation Prepared with a Flow-Focusing Microfluidic Channel Device. Langmuir, 2012, 28, 2145-2150.	1.6	49
140	Stereocomplex Formation by Enantiomeric Poly(lactic acid) Graft-Type Phospholipid Polymers for Tissue Engineering. Biomacromolecules, 2002, 3, 1109-1114.	2.6	48
141	Prevention of Biofilm Formation with a Coating of 2-Methacryloyloxyethyl Phosphorylcholine Polymer. Journal of Veterinary Medical Science, 2008, 70, 167-173.	0.3	48
142	Detailed study of the reversible additionâ€"fragmentation chain transfer polymerization and co-polymerization of 2-methacryloyloxyethyl phosphorylcholine. Polymer Chemistry, 2011, 2, 632-639.	1.9	48
143	Adhesion force of proteins against hydrophilic polymer brush surfaces. Reactive and Functional Polymers, 2011, 71, 350-355.	2.0	48
144	Reduction of Peritendinous Adhesions by Hydrogel Containing Biocompatible Phospholipid Polymer MPC for Tendon Repair. Journal of Bone and Joint Surgery - Series A, 2011, 93, 142-149.	1.4	48

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145	Reduced Blood Cell Adhesion on Polypropylene Substrates through a Simple Surface Zwitterionization. Langmuir, 2017, 33, 611-621.	1.6	48
146	Protein adsorption on biomedical polymers with a phosphorylcholine moiety adsorbed with phospholipid. Journal of Biomaterials Science, Polymer Edition, 1992, 3, 185-194.	1.9	47
147	Effect of reduced protein adsorption on platelet adhesion at the phospholipid polymer surfaces. Journal of Biomaterials Science, Polymer Edition, 1997, 8, 151-163.	1.9	47
148	Effect of 2â€methacryloyloxyethyl phosphorylcholine concentration on photoâ€induced graft polymerization of polyethylene in reducing the wear of orthopaedic bearing surface. Journal of Biomedical Materials Research - Part A, 2008, 86A, 439-447.	2.1	47
149	Nanoscale evaluation of lubricity on well-defined polymer brush surfaces using QCM-D and AFM. Colloids and Surfaces B: Biointerfaces, 2009, 74, 350-357.	2.5	47
150	Well-Controlled Cationic Water-Soluble Phospholipid Polymerâ˜'DNA Nanocomplexes for Gene Delivery. Bioconjugate Chemistry, 2011, 22, 1228-1238.	1.8	47
151	The effect of the encapsulation of bacteria in redox phospholipid polymer hydrogels on electron transfer efficiency in living cell-based devices. Biomaterials, 2012, 33, 8221-8227.	5.7	47
152	Preparation of upper critical solution temperature (UCST) responsive diblock copolymers bearing pendant ureido groups and their micelle formation behavior in water. Soft Matter, 2015, 11, 5204-5213.	1.2	47
153	Preparation of a thick polymer brush layer composed of poly(2-methacryloyloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 adsorption resistance. Colloids and Surfaces B: Biointerfaces, 2016, 141, 507-512.	2.5	47
154	Synthesis of polymers having a phospholipid polar group connected to a poly(oxyethylene) chain and their protein adsorption-resistance properties. Journal of Polymer Science Part A, 1996, 34, 199-205.	2.5	46
155	Improvement of blood compatibility on cellulose hemodialysis membrane: IV. Phospholipid polymer bonded to the membrane surface. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 271-282.	1.9	46
156	Design of functional hollow fiber membranes modified with phospholipid polymers for application in total hemopurification system. Biomaterials, 2005, 26, 5032-5041.	5.7	46
157	Superlubricious surface mimicking articular cartilage by grafting poly(2â€methacryloyloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2009, 91A, 730-741.	2.1	46
158	Regulation of cell proliferation by multi-layered phospholipid polymer hydrogel coatings through controlled release of paclitaxel. Biomaterials, 2012, 33, 954-961.	5.7	46
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